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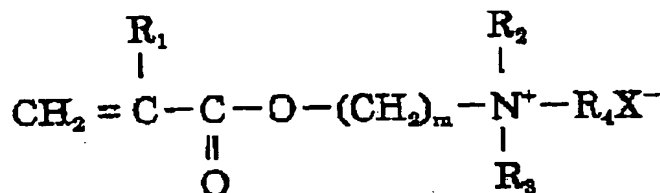
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APPLICANT : MITSUBISHI PLASTICS IND LTD;

INVENTOR : KAKISHITA OSAMU;

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TITLE : RESIN FOR INK-JET RECORDING
SUBSTRATE AND INK-JET
RECORDING SUBSTRATE



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a resin which can give a recording layer of an ink-jet recording substrate, capable of forming a non-blotting high quality image by mixing a methyl methacrylate copolymer with a copolymer comprising a quaternary ammonium salt containing monomer component having a specified structure, a polyalkylene glycol component, and a vinyl monomer component with a hydrophilic thermoplastic resin.

SOLUTION: This composition comprises a polymer compound containing a methyl methacrylate copolymer and a copolymer comprising 20-90 wt.% quaternary ammonium salt containing monomer component represented by the formula, 10-80 wt.% polyalkylene glycol component, and 0-70 wt.% vinyl monomer component such as acrylamide and a hydrophilic thermoplastic resin. The hydrophilic thermoplastic resin is obtained by reacting a polyalkylene oxide prepared by the addition polymerization of ethylene glycol and ethylene oxide and the addition polymerization of the adduct and an alkylene oxide and ethylene oxide with a dicarboxylic acid. In the formula, R1 is hydrogen or methyl; R2 to R4 are each a 1-9C alkyl or the like; and X is a monovalent acid group or the like.

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